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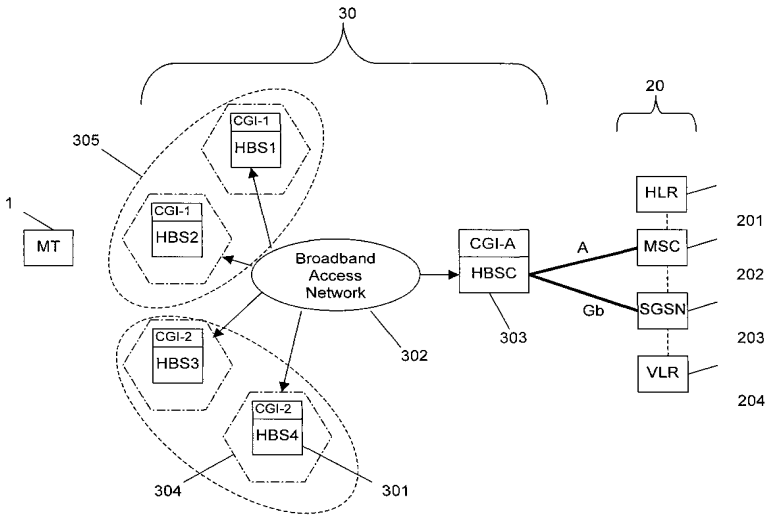
(54) Title: MOBILE COMMUNICATIONS WITH UNLICENSED-RADIO ACCESS NETWORKS



(57) Abstract: An unlicensed-radio access network is proposed for communication with a mobile terminal and packet service nodes in a core network portion of a mobile telecommunications network. The access network comprises local base stations each defining a mini-cell and adapted to communicate with mobile terminals over an unlicensed-radio interface and an access network controller connected to the local base stations and to a packet service node in the core network portion. The mini-cells are also grouped into at least two packet service cells. The local base stations that generate these mini-cells are assigned a cell identifier comprising a first identifier portion that is common for all local base stations connected to the access network controller and a second identifier portion that is different for local base stations in different packet service cells but common for all local base stations in the same packet service cell.

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